

ABSTRACT OF THE DISCLOSURE

An optical tube assembly having at least one optical waveguide, at least one dry insert, and a tube. In one embodiment, the dry insert has a first layer and a second layer.

- 5 The first layer is a polyurethane foam and the second layer is a water-swellaable layer, wherein the dry insert is disposed within the tube and generally surrounds the at least one optical waveguide.